

SEASONS GREETINGS



Christmas Cover Art Is Work Of Graphic Designer Janet Jenkins

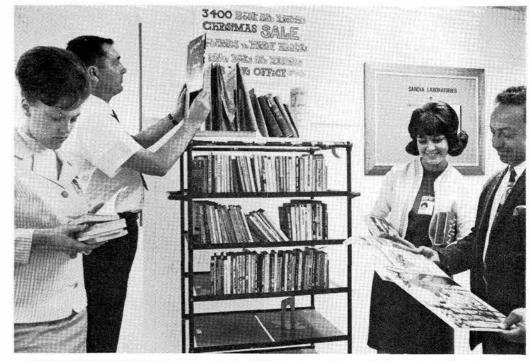
Janet Jenkins, a graphic designer in Technical Art Division 3463, did the Christmas cover design for this issue of the LAB NEWS. It is the third time that her art has been selected for the publication's seasons greetings to employees. Previously she did a madonna design and a multi-colored modern Christmas tree.

Janet earned her MA in fine arts at the University of New Mexico in 1963 and joined Sandia after graduation. Previously, she had worked here as a summer hire.

Last year Janet took a leave of absence to help set up a graphic arts graduate program at the Villa Schifanola in Florence, Italy.

Describing this year's Christmas cover Janet says, "I tried to capture a feeling of a universal church in the light of sunset. The mosaic pattern reflects the Spanish and Indian heritage of our region."





BOOKS ARE SELLING like hotcakes in the 3400 Book and Record Sale in the lobby of 802. Proceeds from this, the Sloppy Joe luncheon and the bake sales go to needy families in the Manzano Mountains. The sale will continue until Christmas, so bring your old books and records to the LAB NEWS office. Hotcakes we don't need, but flour, canned goods and cther non-perishables will be welcome for distribution to poor families.

Children, Poor Benefit From Annual 3400 Christmas Project

It's not too late to bring toys, clothes, money, food, books or records for the annual 3400 Christmas project which assists children of the A. Montoya School and poor families in the Torreon, Escabosa and Chilili communities.

Money from the sale of books and records in the lobby of 802, as well as from bake sales and sloppy joe sales, is used to purchase food, clothing and other necessities at wholesale prices, according to John Shunny (3432), chairman of the 3400 Organization project.

Persons who have books or records they wish to donate to the Christmas project are urged to bring them to the LAB NEWS office, Bldg. 800.

Speakers

Kenell Touryan (9340) and George Shelton (9342), "Multifluid Theory for Stagnation Flow of Partially Ionized Plasma," annual meeting of the American Physical Society, Division of Fluid Dynamics, Nov. 25-27, Seattle.

Cecil Land (5153), "Ferromagnetic and Ferroelectric Materials and Devices," Sandia High School Science Club, Nov. 14, Albuquerque.

David Theis and Hugh Pierson (both (5412), "Effect of Deposition Temperature on Properties of Pyrolytic Carbon/Carbon Felt Composites," Pacific region, American Ceramic Society meeting, Oct. 25, Pasadena.

Robert Croll (9322) and Floyd Forsythe (9323), "A Computer Control Data Acquisition and Control System for Wind Tunnel Testing," Honeywell Computer Users Group Fall Meeting, Dec. 9, San Francisco.

Cecil Page (5434), "1500°F. Filament-Wound Electrical Insulation," 1968 Electrical Insulation Conference, Dec. 9, Los Collection boxes for clothing, toys, food and other useful items are located in the LAB NEWS office of 800, the South Wing of 802, and room 31 of 818.

Cash donations should be brought to the LAB NEWS office.

Other 3400 committee representatives include Jim Marsh, Virginia Southerland. Gwen Warnick, Bernie Cervantes (all 3410), Wally Boyes (3450), Mary McClure and Wynne Cox (3420) and Jim Walston (3460).

Sandians Buy Shoes For Needy Children

Two Christmas projects at Sandia will provide shoes for at least 155 needy Albuquerque school children.

Organization 1600, for the ninth consecutive year, is purchasing shoes for at least 100 children from the Riverview and Longfellow Elementary Schools. C. R. Cundiff (1615) is chairman of the project committee.

The shoes will be purchased at Kinney Shoe stores, which will provide a discount, free socks and candy for the children.

A second project, through the combined efforts of organizations 2491 and 7410, will provide at least 55 pairs of shoes for children from John Marshall Elementary School. O. D. Belden (2491) is chairman of the project.

Sears will provide the shoes at discount, plus socks and bags of candy.

Union Adopts Children Of Riverview School

For the ninth consecutive year, Office and Professional Employees Union, Local 251, AFL-CIO, has adopted 300 needy youngsters of the Riverview Elementary School as a Christmas project.

SANDIA LAB NEWS



SANDIA LABORATORIES ALBUQUERQUE, NEW MEXICO LIVERMORE, CALIFORNIA

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Editorial Offices, Albuquerque, New Mexico Employee Publications, Rm. 112, Bldg. 800, Tel: 264-1053

Editor: John Shunny Staff: Cherry Lou Burns, Don Wolfe, Don Graham, Bill Laskar, Norma Taylor

> Public Information, Livermore, California Rm. 138, Bldg. 912, Tel: 447-2387

William A. Jamieson, supervisor Staff: Matthew J. Connors, Lorena Schneider

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COVER ARTIST Janet Jenkins (3463) checks engraving proofs with composing room foreman Eddie Curley at Ward Anderson Printing Company.

Promotions

Joseph C. Smith (4222) to Specialties Worker Waldo Lucero (4514) to Oiler Donald E. Lent, Jr. (3415) to Mail Clerk Ronnie G. Stone (3415) to Mail Clerk J. Albert Mass II (9411) to Messenger Manual A. Gonzales (3415) to Mail Clerk C. L. Pedroncelli (3415) to Mail Clerk Vivian Bianchi (3126) to Typist Tony Chavez (9411) to Data Processing Clerk Robert Montoya (9411) to Data Processing Clerk Eloy Tapia (3428) to Messenger Robert F. Thomas (3428) to Messenger Alice F. Lucero (3413) to Service Clerk Edmund Starr, Jr. (9411) to Tabularing Equip. Operator Charles R. Freund (4363) to Traffic Analyst Elmos L. Anderson (8222) to Boiler Plant Operator Adana M. Echer (8312) to Secretarial Stenographer Thomas L. Morgan (8253) to Camera Operator Randall Gummus (8322) to Computer Operator Mayr Gelinas (8231) to Editorial Assistant Angeles.

Max Linn (3400), "Acres of Diamonds — Improving the Outdoors in the City," Rio Grande Chapter, Soil Conservation Society of America, Dec. 11, Albuquerque.

George Voida (2634), "Cable Assemblies for the F-111 Aircraft," Eighth Electrical Insulation Conference (IEEE), Dec. 12, Los Angeles.

G. H. Bradley, Jr. (1641), "Engineering and Science Careers and Opportunities," Sandia High School Science Club, Dec. 5.

George Tucker (3313), "Radiation Detection Fundamentals," Sunport Optimist Club, Dec. 11.

Bertha Allen (3421), "Sharing our Information Resources," La Luz Chapter, American Business Women's Association, Dec. 12.

Grover Hughes (7224), "Visual Tracking of Artificial Satellites," Sunport Optimist Club, Dec. 18.

Donald Morrison (1713), "Artificial Intelligence," UNM Society of Physics Students, Dec. 19.

Robert Jefferson (9141), "Remote Handling," Sandia Optimist Club, Dec. 12. Spearheading this years' project are Byron Stewart (4233), president of the union, and Tony Chaves (4615), chairman of publicity and entertainment.

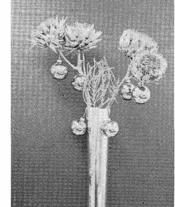
Many employees, non-union as well as union, forego the exchange of Christmas cards with fellow employees in order to participate in the annual project to distribute toys and gifts to the Riverview children.

Highlight of the project is a Christmas Party tomorrow afternoon at 1 p.m. in the school cafeteria. Santa, in the guise of Tony Chaves (see picture in this issue), will make an appearance, and there will be entertainment by the Tom MaCahon Trio, the Elk's Clowns, magician Charles G. Richards, and Christmas carols by the Fiesta Singers under the direction of E. George Powell and assisted by Sandian Pete Gallegos (2352).

Other Sandia employees serving as chairmen of various committees are Herman Perea (4151), Maxine Stephenson (7631), Manuel Chavez (4151), and Daryl Orth (4232).

This past Wednesday, the union provided a Christmas dinner for the children in the school cafeteria.





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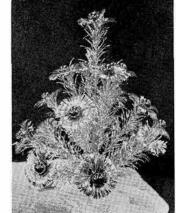
DECEMBER 20, 1968

Christmas Decorations Around the Laboratory









Take Note

years.

tors Journal.

programs.

"Making Marksmanship Easy," was pub-

lished in the Summer 1967 USAF Instruc-

G. L. Rhodes, supervisor of Safety En-

gineering Division 8255, was co-chairman

of a recent American Management Asso-

ciation (AMA) workship-seminar held in

Los Angeles Nov. 18-20. Gil led discussions

on "Managing a Modern Safety Program"

for line and staff executives concerned

with promoting and establishing safety

The Del Valle Toastmistress Club, the

first toastmistress chapter in the Liver-

more Valley, received its charter from the

International Toastmistress Club recently.

Sandians serving as officers of the chapter

Marshall D. Meyer (8311) took the "first-overall" trophy in the fall regional (all of Northern California) race at the Laguna Seca track near Monterey. Driving his 1966 Triumph Spitfire, Marshall competed with cars in Classes F and G for production model vehicles and Class C for sedan vehicles.

Last fall Marshall won a third-place overall trophy and a first in Class G for points standing for the entire 1967 season. He also set a track record during this spring's regional race at Laguna Seca when he completed the fastest recorded lap in his class - 1:25.68 minutes - two seconds faster than the old record.

* * *

Walt Troy of Security Administration and Operations 8236 is the author of an article, "Student Oriented Training," which appears in the fall issue of the United States Air Force Instructors Journal. The article describes an effective program of student training that adheres to the learning principles of student participation and motivation.

With Sandia since 1957, Walt in recent years has been concerned with developing

SLL training programs for Sandia's security organizations, both at Livermore and Albu-Christmas querque. Previously, he served in the U.S. Marine Corps and as a special agent with the Federal Bureau of Investigation and Dance was an arson investigator with the National Board of Fire Underwriters for two Tonight A previous article coauthored by Walt,

> include Bette Hoffman (wife of Ron Hoffman 8215), president; Mary Daniel (8243-1), treasurer; and Peggy Held (wife of Bruce Held 8215), program chairman.

> Meetings are held the second and fourth Tuesday of each month at the Carnegie Building in Livermore (old library). Employees interested in joining the club may obtain further information by contacting Peggy Held at 447-8997.

Congratulations

Mr and Mrs. Joe Ambrulevich (8213), a daughter, Jennifer Ann, Oct. 28. Mr. and Mrs. Ron McClellan (8314), a

son, Steven William, Oct. 18. Mr. and Mrs. Dave Abrahams (8233), a

son, Joel Martin, Nov. 7. Keith Oatney (8322), and Rita Ott mar-

ried in Pleasanton, Sept. 7. Beth Williams (8232) and William Reu-

land (LRL) married in Livermore, Nov. 23. Mr. and Mrs. Gary Ludwig (8131) a son,

Final Figures Announced for United Bay Area Crusade

The campaign chairman of the United Bay Area Crusade announced at a recent awards luncheon in San Francisco that contributions for 1968 totaled \$15,347,982. The figure represents a five percent increase (or \$729,735) over 1967 contributions.

Employees at Sandia Laboratories Livermore gave \$26,128 (an eight percent in-crease over the 1967 figure of \$24,053).

Funds collected help support 176 community health, welfare and youth services located in the five-county region of the Bay Area.

Welcome . . .

Newcomers Oct. 21 - Dec. 6

California	
Linda Y. Armijo, Tracy	8231
Edward T. Cull, Jr., Las Gatos	8154
Susan A. Gutierrez, Livermore	
Joan K. Hall, Livermore	8231
Arthur L. Hull, Livermore	8333
Kathleen Kimbrell, Livermore	
Linda A. Rien, Livermore	8231
Dannis R. Scott, Livermore	
John E. Teodora, Los Angeles	
Connecticut	0232
John W. O'Connor, Middleton	8312
Florida	
*Andrew H. Stark, Winter Park	8172
Georgia	
Danny L. Hartley, Chatsworth	
Illinois	
David J. Dannenberg, Chicago	
Thomas D. Eskridge, Chicago	
Gary D. Hirth, Chicago	
Texas	
William L. Guyton, Austin	
Utah	
Lindsay P. Caywood, Salt Lake City	
Transfers from Albuquerque	
Lyle E. Hake	
Richard A. McHugh	
*Denotes rehire	

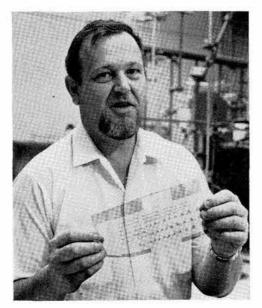




RETIREE MEETING - Sandia retirees and their wives attended a luncheon meeting recently at Castlewood Country Club in Pleasanton. Among those present were (I to r) S. M. Krell, E. W. Baldwin (8210), B. S. Biggs, and W. L. Miller. The meeting was arranged by Training, Benefits, and Records Division 8214 and featured guest speaker L. B. Warner of LRL, himself a retired Navy Commander, who discussed a local low-cost housing project for older people.



NEW CONTRACT - Officials of International Association of Machinists and Aerospace Workers and Sandia Laboratories Livermore recently signed a new three-year contract. Shown at the signing are (I to r) R. E. McMurtrey (8223), union steward; W. Standnisky, IAMAW senior business representative; S. T. Mancuso (8212), C. H. DeSelm, director 8200; and D. D. Wagner, supervisor 8212.



LARRY HARRAH (5113) displays easy-touse radiation dosimeter he has invented. The film changes color in direct relation to the amount of energy absorbed. Pattern of film was created by exposure through a shielding drafting template.

Larry Harrah Invents Rad Dosimeter

AEC has applied for a patent on a plastic dosimeter invented by Larry Harrah of Physics of Organic Solids Research Division 5113.

The dosimeter is basically a mixture of triarylmethane carbinols with hydroxyl or amine auxo-chromes incorporated into a thin film of polystyrene plastic. The film measures high-level energy deposition from ionizing radiation by changing color in relation to the amount of energy absorbed.

According to Larry, the film is "difficult to make but easy to use." It becomes a useful tool for radiation effects experiments in Sandia's engineering and pulsed reactor facilities and electron and gamma radiation sources. The film is exposed at the same time as the experiment and the amount of radiation exposure is recorded. The film's color change is permanent and can be accurately measured by use of a microdensitometer or spectrophotometer.

The dosimeter is effective over a wide range of radiation exposures — from 10^4 to 10^7 rads.

Larry has worked as a physical chemist in the field of radiation effects since 1961. At that time he joined the Air Force Materials Laboratory at Wright Patterson AFB after earning his PhD from the University of Missouri. He came to Sandia in September 1966.

R. E. Hollenbach Earns Sandia Tech Institute Degree in Electronics



R. E. (Red) Hollenbach, a staff associate in Stress Wave Phenomena Division 5161, was awarded a certificate recently for earning the equivalent of a technical

Down to Earth Project

Terradynamics System Gives Data For Remote Selection of Airfields

How do you design an airfield for heavy military aircraft when the site is in a remote, inaccessible area? Well, one essential item is data on the characteristics of the soil at the proposed airfield, and now underway at Sandia is a project to demonstrate a device that will provide such data by remote means.

Terradynamics Division 9327 under Bill Caudle is working with Texas Instruments in the Air Force-sponsored study to demonstrate the feasibility of remotely evaluating airfield sites in forward or hostile areas through use of a Sandia-developed terradynamics system.

Using instrumented projectiles, the division is gathering data from earth penetration drops made near Dallas, Texas, and at Sandia Base. Other key members of the test team include John Colp, Ed Villella, Perry Wilkes and Bill Patterson (all 9327), and Ray Wood (7215), who is responsible for the electronic instrumentation.

In order to show the validity of the data which was recorded remotely aboard the drop aircraft, an analysis of it and a judgment of the soil profile will be made by Clarence Young (9327) and Dr. Robert L. McNeill of Woodward-Clyde and Associates, who is serving as an independent consultant. Results of these independent analyses will be forwarded to the Air Force, as part of the Texas Instruments report, for a comparison with findings based on soil samplings and tests at the actual target sites.

The projectiles, called penetrometers, were dropped from 4000 feet on target sites selected from air photographs. The on-board instrumentation package of the three-inch diameter penetrometers included a deceleration transducer, a transmitter,

Second Invention for Knutson

Patent Granted for Sandian's Digital Data Logic System

When Dick Knutson (2354) discovered that commercially-available test instruments were inadequate for some electrical test analyses he was working on, he responded to the prod of necessity and promptly invented his own device.

As a result, the AEC recently has been granted a patent for a Digital Data Sorting Logic System which is not only more versatile than existing instruments but considerably cheaper to produce.

The DDS device is the second patented invention by Dick. As a student at the University of Minnesota, he developed an Arithmetic Instructing Aid Circuit which since has been patented.

Essentially, Dick's invention organizes and summarizes digital readout information and displays it is in the form of a histogram or "visual picture of the distribution and displays it in the form of a hisand a trailing antenna. Signal receiving and recording equipment was carried aboard the drop aircraft.

Since deceleration of a projectile passing through earth is dependent on the soil properties, it is possible to chart a profile of the soil by recording the deceleration rate of the projectile. By comparison with data from hundreds of previous tests in different soils, fairly accurate soil charting is then possible.

In the present series of drops, the Air Force Weapons Laboratory at Kirtland is interested in determining the capability of the Sandia system — one of the nine remote sensing systems being tested by Texas Instruments — to chart sub-surface soil characteristics to a depth of at least three feet. In the Sandia tests, the 44-inch-long projectiles, which attain an impact velocity of about 250 feet per second, penetrate to depths ranging from four to six feet. Penetration depth is a function of drop altitude, aerodynamic design of the projectile, and of the characteristics of the earth materials.

John Colp describes the Sandia remotesensing, earth penetration system as having a wide range of possible applications including surveys of mineral and watertable locations, selection of boring sites for structures in wilderness areas, and exploration of extraterrestrial bodies. In the latter application, it has been suggested to NASA that penetrometers be included on a Mars shot. Using a hydrogen detection system, it would be possible to determine if water exists on Mars, a question of long-time interest to scientists.

Terradynamics, the science of the behavior of soils under stress from penetrating vehicles, was originated and developed at Sandia, largely under the direction of Bill Caudle and Alan Pope, director 9300.





MAN, DIG that crazy postholer! Penetrometers designed and developed by Terradynamics 9327 make a nice, neat hole in the ground but serve a more useful function as a means to obtain remotely the soil data necessary to establish airfields in forward or hostile areas. John Colp (standing) and Ed Villella (both 9327), examine one of the earth penetrating instruments after test drops made at Sandia recently.

Supervisory Appointments

HEINZ SCHMITT to supervisor of the newly-created Exploratory Systems Division 1225, effective Dec. 16.

Heinz first joined Sandia in 1960 and worked with Analytical Development Division 1541 until 1963 when he took



an educational leave of absence to work on a doctorate in mechanical engineering at Oklahoma State University, which he completed in 1966.

Since his return to Sandia, Heinz has worked in Exploratory Systems Division 1222 where he was a flight test project leader.

In his new division, Heinz will continue to work in materials development and testing and will also work on an Air Force flight program involving reentry vehicles.

Heinz received his BS degree in mechanical engineering at Brooklyn Polytechnic Institute and his MS degree in ME at the University of New Mexico.

FRANK LUCERO to supervisor of Communications Operations Section





institute degree in Sandia's out - of hours educational

program. Three of his credits were transferred from the University of New Mexico.

Red started in the out-of-hours program in 1957 and has since completed at least one course per semester. He is currently taking a chemistry course.

He started at Sandia in 1950, left for two years to help install the television transmitters on Sandia Crest and rejoined Sandia in 1956. His hobbies include ham radio operation and fishing.

Employee Training and Education Division 3132 offers technical institute level courses in electronics, drafting and design, and mechanical and industrial technology. Classes are conducted during noon hours or after work. Students study on their own time and must maintain satisfactory scholastic standing.

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with any digital device that provides electrically energized readout such as a digital voltmeter or digital micrometer.

Using earlier systems, such histograms could be obtained only by manually summerizing individual numerical readings a laborious and time consuming operation — or by using valuable computer time together with its associated manual keypunching.

Dick said his interest in creating such a device goes back to 1964 when he was working with an electrical test analysis group. "I decided what we needed in test data output was not a lot of numbers but, rather, a frequency distribution output. I also discovered that available instruments not only lacked versatility but were available only in complex — thus costly packages that included the voltage measuring system, the display devices, and all the associated circuitry." Dick's invention, on the other hand, is a relatively simple information storage and logic sorting device, easily connected between a voltmeter on one end and a histogram plotter on the other.

"The principal advantage here," says Dick, "is that the DDS module is com-



AEC PATENT has been granted for Dick Knutson's Digital Data Sorting Logic System, a device which provides a cheaper and more efficient method of obtaining a histogram from electrically-energized readout. The module is Dick's second patented invention.

patible with most digital readout devices. At the same time, the DDS has no effect on the precision or accuracy of measurement that is being made since it simply 'senses' the readout of the measuring device.

"The DDS, in providing an immediate histogram, also does away with the necessity to store vast amounts of data until personnel or computer time becomes available."

Dick said his invention is of optimum value in testing situations where a number of similar devices (such as diodes) are to be tested individually, or when a single device is to be tested many times. 9415-1, effective Dec. 16.

Frank started to work for Sandia in 1951 as an operator in Electrical Accounting Machines Division. Since 1959,

he has worked as a computer programmer in Data Center Division 9413.

Previously, Frank worked several years for the Employment Security Commission of New Mexico as an electrical accounting machines operator.

A veteran of World War II, Frank served with the U.S. Army Signal Corps in Italy, North Africa and Sicily.

He attended and is a graduate of the Albuquerque Public Schools.

Sympathy

To Dick (3455) and Jessie (6201) Hodges for the death of Dicks' mother in Albuquerque, Dec. 14.

To Margaret Wetzel for the death of her father in Albuquerque, Nov. 28.

Retiring



staff representative (TDSR) for an engineering R&D department. Ken has been with the field test organization for the past five years.

ant,

Ken is using Sandia's early retirement plan "to do the things I like to do." Those things include skiing, boating and wilderness area activities.

Ken and his wife, Virginia, will spend the first year of his retirement seeing the U.S. They own a camper and a boat but their sightseeing will be done from water-ways rather than highways. "We'll use the camper only to take our boat from one body of water to another," Ken says.

"As long as I can be out-of-doors, I'm happy. I've even lined up some 'work,' if you can call it that: a job at Aspen - on the slopes, naturally, acting as a boating guide at Lake Powell, and I can always do guide work or clear trails, which I like better than anything, in our own Pecos area.

The Kerns have a married daughter living in Los Angeles and a two-year-old granddaughter.



Ellen Jones of Technical Information Division III 3413, is retiring the end of this month. She was employed by Sandia in January 1953 and has worked in a number of service organizations, including, drafting, qual-

ity assurance, document control and mail services.

Mr. and Mrs. Jones will continue to reside in Albuquerque following Ellen's retirement. They have two children (a son, Warner, works in Division 9411) and three grandchildren. After a couple of months rest, Ellen plans to visit her daughter and family in Montana and then go on to Canada to see friends.

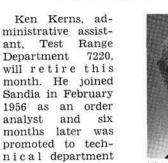
"We are so fortunate at Sandia to have an early retirement plan," Ellen says. "I'm going to travel and really enjoy my retirement." She plans to visit friends and relatives in New Hampshire, New York and California. Ellen says she also enjoys gardening and sewing for her grandchildren. Presently she is working on three stamp collections - one for each grandchild.

Events Calendar

Dec. 20-21-Lobo Invitational Basketball Tournament (San Francisco, Temple, Fordham and UNM), University Arena.

Dec. 21-Climb on the volcanic plug, Cabezon, N.M. Mountain Club, leader Bob Kyrlach, tel. 296-1725.

Dec. 24-15th annual luminaria tour, Albuquerque.



Edith Jolly, service clerk in Control and Budget Section 4212-2 of Stock and Material Control Division, is retiring the end of this month. She has been at Sandia since June 1953. "Sandia's early

retirement plan is ideal," Edith says. "I'm so grateful for the opportunity to retire early. I think early retirement is especially appealing to married women who have satisfied their desire for a career and wish to return to homemaking."

Edith has many interests to keep her occupied — church activities, reading, knitting, gardening and gourmet cooking, "I also plan to do some community work, audit some university classes and spoil my husband for a change" (Ed is administrative assistant 4600).

Edith and Ed have three children and four grandchildren.



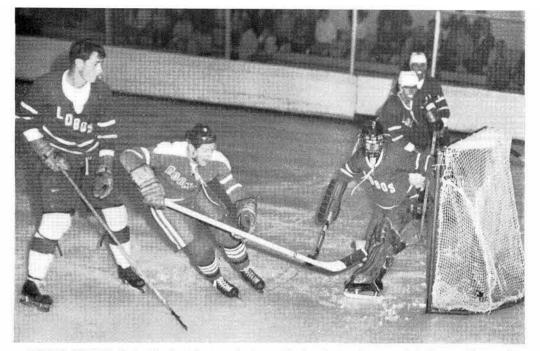
John S. Maxon, supervisor of Survey Division 7454 of Measurement Standards Department, is retiring after more than 20 years at Sandia. He joined the company in May 1948 as a supervisor in Quality Assurance or-

ganization. He was a supervisor in R&D for 10 years and has been in his present position since June 1960. Before joining Sandia. John worked and resided in Ohio.

Mr. and Mrs. Maxon have a married daughter and three grandsons living in Maryland. Although the Maxons will maintain their home in Albuquerque, they are avid travelers and much of their time will be spent on the road. For the past few years they have been planning and equipping for a retirement life of recreational travel. Their travel has not been limited to the future; they have averaged ten to twelve thousand miles per year for the last six years.

"We travel light — just the essentials," John reports, "an Airstream trailer, a four-wheel-drive tow vehicle with power winch, an 18-foot canoe with a sail and a Honda motorbike." John is president of the New Mexico unit of the Wally Byam Airstream Caravan Club which has 106 trailer-family members. The Maxons have attended the last seven international rallies where 2000 to 3000 Airstream trailers have convened. "But we also like to go on our own," John says, "and there are many places seen in our travels that we've decided are worth a return trip."

John has been lecturing pre-retirees on recreational travel, in connection with Sandia's retirement counseling program. "I've enjoyed this so much that following my own retirement I may do some lecturing for various groups. In fact, I'm going to have to live at least until I'm 90 years old to be able to do everything I've planned. Immediate plans include a Caravan Club Rally in Sarasota, Fla., in February, a tour of Alaska next summer and, eventually, John's greatest desire - a trip through the entire length of Baja California.



LOBOS' GOALIE finds his foot is too short, or his leg is too long, to block a well-aimed puck shot by Rol Hewitt (9252), right wingman for the Sandia-Kirtland Rockets. Rol's goal was the third in the Rockets' 4-3 win over the Lobos in a recent game.

Winning Recipe

For Ice Hockey Take Six Skaters, Add Sticks, Lumps and Beat Well

For a game in which there is but one winning team while everyone gets wellbeaten, try ice hockey.

Some Sandians have and, in spite of lumps, their team currently is leading the Albuquerque Major Division Hockey League.

Sandians playing for the Sandia-Kirtland Rockets, who are leading the league with a 3-2-1 record, are Rol Hewitt (9252) and Ron Rigali (9328). A third Sandian, Bruce Noel (7222) plays with an opposition team, the Albuquerque Falcons.

Ice hockey has been described as a game which in pace is comparable to basketball and in body contact is about like football. "Surprisingly, outside of the customary

AEC Names Manager Of Nevada Operations Robert E. Miller,



deputy manager of AEC's Nevada Operations Office, has been named to succeed retiring NVOO Manager James E. Reeves, effective Jan. 1, 1969.

The Nevada Operations Office is

responsible for conducting the nation's underground nuclear test program.

Mr. Miller joined AEC in 1952 and has been associated with the test program since 1957. He was a special staff assistant with the test organization when it was headquartered at Albuquerque as part of Albuquerque Operations. In 1961, he moved to Las Vegas to become Director of Plans for the new Nevada Operations Office. He later was named Assistant Manager for Plans and Budgets, and then Deputy Manager

Retiring Manager Reeves, who has been responsible for all U.S. nuclear explosive test operations in the continental United States since 1955, has been at the Las Vegas installation since 1961. He headed AEC's test organization when it was part of Albuquerque operations. Mr. Reeves is retiring after 29 years' service with the Federal government.

nicks and scratches, our injury rate is quite low. That's mostly because the game requires top conditioning. It's not true that we lose many teeth," says Rol, puckishly And for someone with the distinction of being old enough to have a son playing on the same team, the low injury rate is even more surprising-Rol's 17-year-old son, Russ, plays left wing for the Rockets; Rol plays right wing. A second son, 7-yearold Randy, plays in the Pee Wee division of the Albuquerque Minor League.

A number of Sandians, including Rol, have been instrumental in creating interest in amateur ice hockey in the Albuquerque area. Three years ago Rol, who has been playing for about 10 years and is a past president of the league, started a kid's hockey program called the Minor League and has since coached one of the teams.

Other Sandians who are active in the Minor League include Charlie Clendenin (9411), who is a head referee and is responsible for all officials in the minor division; John Smelser (9251), president of the Midget division; George Vaughn (7616), who coaches a Midget team, and Howard Cilke (9424), president of the Pee Wee division. Vic Osterby (7651), does publicity photography for the hockey association.

Sandians who would like to attend any of the hockey games can get discounted tickets through Employee Services 3126. Games are played at the Iceland Rink at Truman and Copper on Tuesday and Saturday nights.

Solid-State Sciences Papers at APS Meet

A number of Sandians are presenting technical papers at the American Physical Society meeting being held this week in San Diego.

Representing Stress Wave Phenomena Division 5161 are: B. M. Butcher, "Compaction and Relief Wave Profiles in Porous Sintered Iron"; J. N. Johnson, "The Effect of Random Glide-Plane Orientation on Precursor Decay in Iron"; K. W. Schuler, "Non-Linear Viscoelastic Behavior of Plexiglas"; F. R. Tuler, "Stress Wave Response of Nickel." Representing Physical Research Department 5130 are: O. E. Jones, "Shock-Induced Dynamic Yielding in Copper Single Crystals"; A. R. Champion, "Electrical Output from Anodized Aluminum During Shock-Wave Loading"; R. A. Graham and G. E. Ingram, "Anomalous Response from Quartz Gauges Subjected to Short Duration Stress Pulses"; R. R. Boade, "Shock Compression of Porous Tungsten"; C. M. Percival, R. C. Lysne, and R. R. Boade, "The Determination of Multiple Shock States and Relief Curves by Reflected Wave Techniques"; P. C. Lysne, "Low Stress Shock Behavior of Carbon Foam"; and R. W. Rohde, "Equation of State of Shock-Loaded Tungsten at 950°C.'

- Dec. 24-Night procession at Taos Pueblo. Midnight dances in most Pueblo mission churches. Ceremonies may continue for several days at individual Pueblos. Make local inquiries.
- Dec. 26-28-Albuquerque Civic Light Opera Association's "The Music Man," Popejoy Concert Hall. Matinee on Dec. 29. For tickets, tel. 277-3121.
- Dec. 27-YMCA tour to Laguna Pueblo for deer, buffalo, eagle, and corn dances. For information, tel. 247-8841.
- Through Jan. 19-Exhibition of Mexican colonial art, UNM Art Museum.
- Jan. 1-Annual climb up La Luz trail to Sandia Crest. N.M. Mountain Club, leader Dan Petersen, tel. 296-2463.

Welcome . . .

Newcomers

Dec. 2 - 13

Albuquerque	
Herman L. Padilla	4574
Seterino L. Sanchez	4574
New Jersey	
Andrew J. Massick, South Amboy	



GENERAL ADVISORY COMMITTEE, a group which advises the Atomic Energy Commission on scientific and technical matters, is briefed by President Hornbeck during their visit to Sandia Laboratories Albuquerque on Dec. 10.

Only Dragons Should Smoke

According to a recent survey by the National Center for Health Statistics, smoking is related to the existence of 300,000 extra heart conditions, one million extra cases of chronic bronchitis or emphysema, nearly two million extra cases of sinusitis and more than one million extra cases of peptic ulcers.

Expert Photographers Give Advice for Filming Holiday Luminarias

The soft glow of luminarias in New Mexico communities on Christmas eve continually enchants visitors and residents alike. But the muted candlelight shining through brown paper bags has been a source of disappointment to many amateur photographers who have tried to record the sight.

As opposed to the usual outdoor Christmas home decorations, luminarias are customarily lit only on Christmas eve or New Year's eve. Probably the most spectacular display in Albuquerque is found at Los Altos, an area of adobe homes just north of the intersection of Coors Blvd. and Bridge St. SW. Homeowners in this area place luminarias on their walls and roofs (this may represent four levels). There are usually about 200-250 luminarias per house and no other lights show.

A drive through the Albuquerque Country Club area also provides opportunity for viewing and photographing both customary Christmas decorations and luminarias.

Hints on how to best photograph both types of decorations are offered by LAB NEWS photographer Bill Laskar and Bob Casper (1521), an engineer whose color slides of luminarias have been sold commercially. Their individual approaches differ slightly.

Both agree that a sturdy tripod or other firm support are "musts." Bob's equipment also includes a black cloth or small box, a sweep-second timer, and a small flashlight.

The men feel it's important that a person become familiar with one particular film — and stick with it.

Bob prefers to take his time exposures late at night when there is less chance of interference from car headlights. "I like to use Kodachrome II (it has an ASA reading of 25) because it is a daylight-type film and has a warming effect on the naturally yellow luminarias. I have standardized my lens opening at f/4. For an overall shot, I figure one minute and for a close-up of luminarias, a half minute," he says.

For ordinary Christmas light decorations (still at f/4 lens opening), Bob figures 10 seconds if there are not many white lights, five seconds for a brightly-lit scene, and one-two seconds when there are lots of white lights or floodlights.

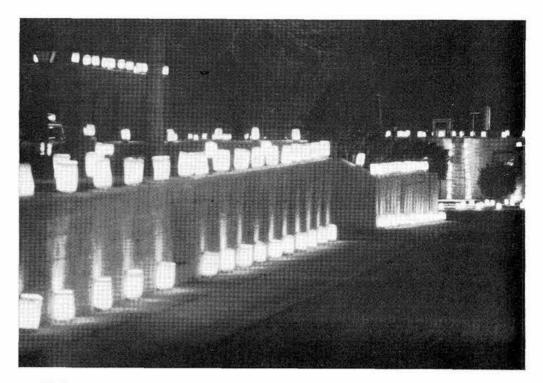
As to the extra equipment, when Bob sees a car approaching, he carefully covers his camera lens with the black cloth or small box, snaps on his flashlight and takes note of the time that has already passed on the exposure. When the offending light is gone, off comes the lens cover and he finishes the time exposure. It once took him nearly an hour to finish the oneminute exposure time of one of his best luminaria shots.

When a constant stream of cars is passing in the distance (for instance at Old Town plaza) there may be no alternative to bright streaks in the background.

"The best advice I can give," Bob says, "is to be systematic. Write down the exposure time for each slide. Then if the result doesn't suit you, you'll have some idea of the correction to make next year."

Bill Laskar prefers to vary both his lens opening and time, based upon light meter readings. "Take a meter reading of both the overall scene and a single luminaria (through the side of the sack, not over the top opening), then average the readings," he says.

He likes to take his photographs shortly after dusk when the lights are seen against the silhouette of the still visible outlines of the houses. "That way," Bill says, "you



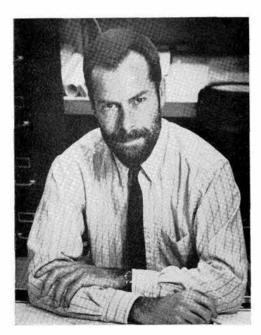
INTERESTING PATTERN of light from luminarias on one of many homes at Los Altos area is a possibility for photographers driving around on Christmas eve. Bob Casper (1521) took this shot.

can try for interesting composition the same as in daylight pictures. You might have to leave out some of the luminarias or decorations to avoid a 'milky way' effect."

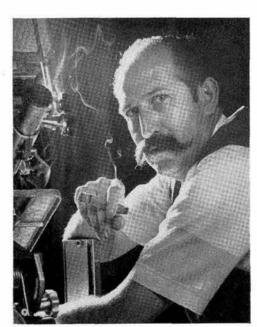
If you have a wide angle lens, use it. This one factor may be the difference between shooting from a sidewalk or having to dodge cars as you stand in the street. Bill prefers to use whichever film type gives the most natural effect.

His main advice: "Don't skimp on film. The shot may be a once-in-a-lifetime situation. So take several pictures by bracketing your exposure time on each side of your meter-time average — they'll be insurance."

What's That Stuff Growing on Your Face?



BOB MORRIS (3463) "It beats shaving."

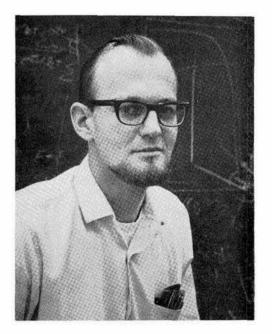


JOE LAVAL (3465) "It embellishes the facade."

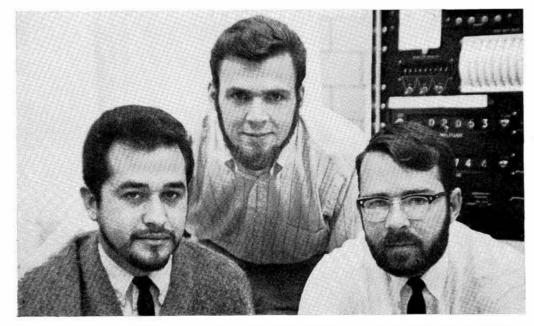
Our staff of professional peoplewatchers report a male trend: Hair, either new or simply long, on cheek, chin, lip, and head-top.

What's it all about? One explanation has it that the whisker types are asserting their maleness. But the growing number who are merely longhaired (and not bewhiskered) are probably—like a male bird—engaged in a kind of ritual preening. After all —not every male has hair on top . . .

LAB NEWS asked a few with more luxuriant adornment their rationale. Their answers reflect the thought that preceded the new growth.



ED SHIPSEY (5232) "Scientists grow beards."





AL WYER (3131) "Why conform?"



S. CLAUS (A. N. CHAVES, 4615) "The kids like it. Ho! Ho! Ho!"

MANNY SILVA (7651) "I like it."

KIP STANLEY (7651) "I won a bet"

AL BRIDGEGAM (7651) "My wife likes it."

Service Awards

20 Years



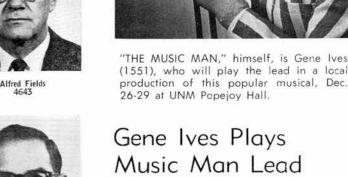








Alfred Fields 4643



One of the happiest sounds in town over the holiday season will be the Albuquerque Civic Light Opera Association's production of "The Music Man."

The popular musical will be presented Dec. 26-28 at 8:15 at UNM Popejoy Hall with a matinee scheduled for 2:15 p.m. on Dec. 29.

Gene Ives (1551) will play the lead role of Harold Hill, the band instrument con man who generates enthusiasm for a school band among the parents in a small town.

This is Gene's first lead with the new Albuquerque Civic Light Opera Association. Previously he played the lead in "Guys and Dolls" for the old Albuquerque Light Opera Company, the lead in "South Pacific" for the Albuquerque Light Theatre, and the role of Mephistopheles in "Faust."

Other Sandians in the cast are Bill Bray (1513) and Mike Parsont (9515).

For ticket information, call the Popejoy Hall boxoffice at tel. 277-3121.

High Navy Award to **Ex-Sandia** Director

The Navy's highest civilian decoration has been awarded Dr. Timothy E. Shea, retired Western Electric vice president of engineering and member of Sandia's Board of Directors from 1952-54.

The Distinguished Public Service Award citation was for "outstanding contributions to the Department of the Navy in the fields of scientific research and develop-ment." Since his retirement in 1964, Mr. Shea has devoted considerable volunteer time to projects and studies for the Navy including serving as chairman of the Committee on Undersea Warfare, National Research Council of the National Academy of Sciences.

The Navy lauded him for leading the committee to "new heights of usefulness' in the areas of antisubmarine warfare survelliance systems, energy sources, submarine noise and satellite applications.

Robert Finnell 9512







Ruth Keyser 3321



Charles Martin 9125



George Matvichuk 2343

Take Note

national secretary of the newly-formed Surface Science Division of the American Vacuum Society. Bob, a member of Surface Kinetics Research Division for the past three years, holds a PhD in physics from Brown University (1963) where he was a research associate before coming to Sandia in 1965. His BA and MA work in physics was done at the University of Texas. Bob served with the U.S. Air Force in 1951-56. He is a member of the American Physical Society and of the Sigma Xi and Phi Beta Kappa societies.

* * *

Winners have been announced in the Sandia Laboratories Interbase Invitational Table Tennis Tournament played Dec. 7: First place in the singles division went to J. E. Clark (7322), second place to W. D. Gutscher (9238). In the doubles championship, W. D. Gutscher and C. L. Kassens (9251) won first place and second place went to R. W. Jones (2352) and L. M. Larsen (2354). In the Class A singles, G. E. Ingram (5132) took first while D. L. Mozey (1211) took second. J. G. Bumgarner (1611) won the consolation singles while consolation doubles went to J. E. Clark (7322) and R. D. Newcomer (7321). A total of 26 players competed in the tournament.

Malcolm Shannon 7341 15 Years



Wynona Durham 4540



Juan Abeita 7611



Joseph Pitti 4622



Marie Dillon 4643









Dec. 13 - Jan. 2 Martel Boyer 2622, James Walker 4512, Richard Gorman 8151, Elmie Newton 8222, James Greenwoll 9125, Orlando Torres 9411, Jose Dominguez 4522, Cyril Moy 8213, Truett Blackmon 9231.



Antonio Silva 9411, Luther Otero 6021, Donald Bower 9232, Frances Schroer 7631, Isabel Silva 3415, Francis Graham 4121. Joseph Genoni 8245, Kennith Goin 9322, Willard Schmidt 1548, Paula Asturias 3251, and Willard McCormick 2321.

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SHOPPING CENTER

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CLASSIFIED ADVERTISING Deadline: Friday noon prior to week of publication unless changed by holiday. A maximum of 125 ads will be accept-ed for each issue. RULES

MISCELLANEOUS

SHOPPING CENTER

HONDA '64 Scrambler 305 w/337 Bore kit, glass tank, \$350. Albright, 268-8534. TOY POODLES, silver, white, 3 mos. old, AKC reg., will hold for Christmas. Shipley, 298-2433.
'65 SUZUKI 150cc, \$200; factory built trailer chassis for 16' trailer, hydraulic brakes, 15'' wheels, \$150. Shock, 877-3728.

LIONEL TRAIN SET. 7 cars, extra track, heavy duty transformer, \$35; dolls play pen, \$2. Bedeaux, 344-6277.

Wilbur Henry 7432

3-BAND radio, Hallicrafter, \$25. Weems, 268-1702. 2-YR.-OLD Dachshund, make offer. Downs, 296-4710 or 299-1537. VIOLA. 3/4 size. w/case. \$50. Silverman, 298-1308

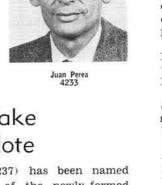
BICYCLE, hoy's 24" wheels, standard frame, \$8. Joseph, 9713 Morrow Rd. NE. BEAGLE, 7-yr.-old, reg. Ebinger, 296-5237. KENMORE washing machine, \$20; Silvertone TV, \$15, needs audio tube. Gonzales, 265-2671.

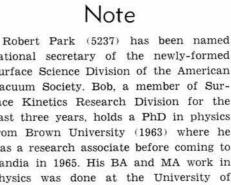
KODAK 8mm movie camera (turret model) w/case; nluc Keystone 8mm projector, both for \$30 cash.

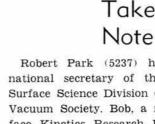
TIRES PIRELLI 165-15 w tubes, \$50; planter for lg. den, \$20; dining room table, chairs, \$50; 2-way FM mobile, \$50. Banks, 255-2544.

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REAL ESTATE 20 ACRES 1 mile west of Edgewood; commercial building, 28 x 32. NE near Juan Tabo & Central. Williams, 298-4602.







- Limit: 20 words One ad per issue per person Must be submitted in writing

SHOPPING CENTER

- Limit: 20 words
 One ad per issue per person
 Must be submitted in writing
 Use home telephone numbers
 For Sandia Corporation and AEC employees only
 No commercial ads, please
 Include name and organization
 Housing listed here for rent or sale is available for occupancy without regard to race, creed, color, or national origin.

FOR SALE

CARS & TRUCKS

- '57 MERCURY 2-dr. HT, AT, PS, PB, radio, \$200. Evans, 299-6870.
- '63 CHEVROLET BelAir 4-dr., AC, sell at bluebook. Turner, 344-7082 after 5.
- '60 STATION WAGON, Chev., one owner, 26,000 miles. Silva, 344-6641.
- '60 CORVAIR 4-dr., runs, needs some work, \$150. Milner, 299-7155.
- '67 CHEVROLET pickup, long wide box, V8, 4-spd. w/or wo/camper, low mileage. Gonzales, 247-1916.
- '62 LINCOLN Continental, all power. AC. w/w, R&H. below book value. Carli, 256-2781.
- '62 FORD 1/2-ton pickup, 4-spd. trans., V8 engine, limited slip differential, other extras. Causey, limited sl 299-0089.
- '63 PONTIAC Catalina, one owner, 4-dr., 53,000 miles, 389 V8, factory air, PS. Luehring, 299-6031.
- '63 FORD fastback, 500 XL, 390, bucket seats, \$300 tires, Ford chrome wheels, 4-spd., AC, make offer. Rex, 298-1055.
 '68 TOYOTA CORONA, all automatic, low mileage, sacrifice \$800 equity for takeover of payments or refinance. Kraft, 296-3991 after 5:30.

- SELL OR TRADE Chevrolet wheels, four 15" and three 14"; ice skates, several sizes. Stuart, 299-9190.
- BOY'S 26" bike, needs rear inner tube, \$18. Mon-toya, 344-8222.
- SEVEN CU. FT. refrigerator, \$25 cash and carry. Cole, 298-1464.
- NEW SET of Persian turquoise jewelry in gold, set consists of bracelet, pin, necklace, earrings, & ring. Dehghanmanash, 265-7346.
- SKI PANTS, boy's size 16, black, Smith, 299-6873. WOMAN'S hand knit ski sweater, large. Williams, 298-2671.
- BASSET HOUND, female, 9 mos. old, spayed, has all shots, all accessories included, good w/children, \$25 or best offer. Chaves, 243-0115 or 255-6155.
- 4-TRACK car tape stereo; plus five tapes, \$35. Beraldi, 344-5802 after 3 weekends.
- WIN. RIFLE M77, .22 auto. w/spare magazine, \$40; want Llama .22 auto. pistol. Svensson, 344-7700.
- RADIO, AM-FM, auto/portable, lift out type, 6V/-12V pos./neg. ground, \$49 list, sell for \$30. Cover, 268-0921.
- RIFLE, Harpers Ferry cap & ball 1848, \$85; Win-chester rifle, model 73. \$79; antique OG clock, \$75; jeep trailer, \$125. Welker, 299-1179.
- VIOLIN, 3⁄4 size w/bow & case, used only few months, sell for \$60. Hughes, 299-6674.
- LARGE spring horse, \$10; 10" tricycle, \$2; child's fire engine, \$5; TV, \$5. Rosborough, 298-3645.
- REVERE SLIDE projector, built-in timer for auto. operation, 500 watt lamp, w/15 slide trays, \$30. Phipps, 299-3151.
- SINGLE BED, bookcase headboard w/springs & foam mattress, \$50. Pope, 816 Val Verde SE, 255-6702.

- CALCULATOR, Marchant, rotary, 10 column, live push button multiplication, automatic tabs. Grant, 255-0576.
- NIKONOS all weather camera, perfect for skiers & snowmobilers, almost new; portable mono record player. Harris, 299-6664.
- FREE puppies for a good home, mixed breed, medium sized dogs, both sexes available. Roberts, 298sized 3126.
- ROYAL typewriter, manual, portable, leather carrying case, \$45. Hall, 268-6387.
- GERMAN SHEPHERD puppies from champion & grand victor blood lines, 7 and 9 weeks old, ready for Christmas. Villella, 298-7955.
- HI FI sterco AM-FM record changer, \$200; Epiphone electric guitar w/amplifier, \$140. McKinley, 296-7015 after 5.
- REGULATION SIZE ping pong table top, brand new, never used, \$10. Cano, 296-6955. ANTIQUES: pressed glass, old clocks, & misc. Mont-gomery, 959 Avenida Manana NE.
- '67 SUZUKI 50cc motorcycle, \$150. Rufsvold, 268-5970.
- WRL GALAXY 300 transceiver & AC supply, \$175; KW linear amp, \$50; 35 amp. 12 volt gas gen-erator, \$35. Snyder, 268-0679 after 6.
- KENMORE auto. washer & electric dryer; Fender amplifier and Epiphone guitar. Mortensen, 298amplit 5348.
- PENTAX H1A, black body F/2 w/soft black case, \$75; Canonet 8mm zoom movie camera, \$25. Mason, 296-5344.
- WASHER, 1962 Ward's front loader, \$50. O'Neal, 298-2859
- PACKARD BELL stereo console, AM-FM radio, cherry cabinet, \$165. Berry, 298-6596.
- '67 YAMAHA 180 electric, 6000 miles, 21 hp, best offer. Salazar, 255-1301 or 247-8304.

plus Keystone 8mm projector, both Cunkelman, 255-3244.

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- ROLLAWAY BED w/mattress, 60'' wide, \$20. Durant, 298-4952.
- 36" KENMORE gas range w/griddle, \$40. Austin, 265-8969 after 5.
- BICYCLES: girl's 26" & girl's 24", \$8 each. Smailer, 299-8413.
- CAMPER JACKS. Newton, 255-2074.
- AMERICAN FLYER, elaborate S-gage set up, 2 en-gines, 6 electric switches, 250 watts, & more, all mounted on 5'x8' table, \$125, originally \$350. Gustafson, 255-7966.
- RECORD PLAYER, Voice of Music, auto. turn-table only-mo electronics), \$5. Bailey, 256-2360.
- 67 BSA 650cc MK 111, 55 hb; dual carbs, fiberglass tank, alloy rims. Maciolek, 299-1696.
 QUARTER HORSE MARES in permanent AQHA reg-istry: Brown bay 4-yr.-old & chestnut 5-yr.-old, both very athletic individuals. Shreve, 898-0298. BLUEPOINT SIAMESE kittens, born Nov. 5, \$10. Connery, 299-8850.
- 2 LAMP TABLES w/3-cluster coffee table, \$20; blue vinyl club chair, \$10, ext. bench incl., 3 pillows, \$10. Barham, 298-7304.
- DRUM SET. Remo Jazz Master, 5 pieces, \$125. Tannart, 268-0963.
- GENUINE old wood wall telephone w/radio built in, cabinet refinished, \$45. Boots, 345-1097.
- BICYCLE, girl's full-size Schwinn, nearly new tires, \$20. Sinnott, 299-1300.
- '65 MUSTANG PARTS: dismantling wreck, have 2 good doors, bucket seats, 14'' wheels, many other parts. Schulze, 298-9328.
- MAHOGANY drop leaf dining room table w/-3 extra leaves, \$50. Ross, 296-4648.
- FREE PUPPIES to good home, mother-pedigree Ger-man shepherd. Farunm, 282-3416.

- 50' LOT, 1100 block S. High St., first \$950 cash takes it, paving paid. Chavez, 298-5091.
- 2/3 ACRE, 190' x 150'. SW Valley, bet Arenal & Blake, 3 blocks east of Foothill. Be Arenal & E 877-2473.
- 8/1-24/5.
 4-BDR., den & fp. 1900 sq. ft., new carpets over hw/floors. DeMattos, 298-7320.
- SPLIT LEVEL, 4 lg. bdr., big family rm., 2435 sq. ft., landscaped, sprinklers, \$30,800, 1505 Marron Circle NE. Driver, 299-2063.
- 4-BDR. ROBERSON, near Eubank & Candelaria, priced \$1000 below FHA appraisal. Bischoff, 298-1994 for appointment.

FOR RENT

HOBBY SHOP or 17'x32' garage w/shelves, work bench & vise, auto. heat, hot & cold water, \$50/mo. Villella, 298-7955.

WANTED

GOOD, used canvas baby-carrier for back-packing, aluminum frame. Bell, 256-7975. METAL SKIS, 5'6'' to 5'9'' (165 to 175 cm). Westman, 255-6048. HYBRID PHONE PATCH. Laskar, 299-1024. SCOUTMASTER for 35 boy troop at school near Winrock, 3 assistant scoutmasters, active committee, several Eagle candidates. Lynes, 268-0144. TOOLS: 10" radial arm saw, 3/8" drill, saber saw, canoe, roller, etc. Teifa, 299-2763. SNOW SHOES in good condition. MacDougall, 299-PAIR OF DUMBELLS. Hayes, 298-4632. RIFLE ammunition hand loading equipment. Wehrle, 255-4667. LARGE curved sectional. Bascom, 299-9044 or 255-



POISED for the party, Betty Jo Espinosa (9425) reminds you of the gala New Year's Eve affair at the Coronado Club Dec. 31 with dancing upstairs and downstairs, hats, confett; and noisemakers. The \$7.50 per couple admission cost includes champagne and a buffet breakfast. Make your reservations now at the Club office.

Just Call Me Alex

Employees whose memory reaches back to Wings cigarettes and synthetic tires will appreciate the results of this recent WE survey: A Long Lines advertising manager asked 20 newspaper people if they knew who invented the telephone. Thirteen said "Don Ameche," star of the 28-year-old movie "The Story of Alexander Graham Bell." Deciding to capitalize on the situation, Long Lines asked Ameche to do an ad spot for them. "Sure," replied Ameche, "if you'll bill it as 'a word from our founder'.'

Sandia **Safety Signals**

If you take a belt this **New Year's Eve**

Learn the Snow Dance

Coronado Ski Club Members High On Enthusiasm; Activities Galore

Tremendous growth of the Coronado Ski Club since 1961 is an indication of the increased popularity of winter sports in Albuquerque. The ski club now has more than 400 members, mainly Sandians and their families

The broad program of activities is designed to appeal to skiers of all ages and all degrees of ability, but club President Bill Stevens (1650) says, "We're making a big appeal to beginning skiers and are placing heavy emphasis on lessons for all skiers.

Other Sandians who are officers of the club are Jim Rhodes (9423), treasurer, and Jim Griscom (2453), vice president.

The large membership enables the club to subsidize charter bus trips to local ski areas without the usual promoter-worry of last minute cancellations. This season the club has planned one-day trips to Taos and Angel Fire, plus a three-day trip in February to Purgatory ski area near Durango, Colo. Members will take over at least two motels for this blast, and club parties are planned for both children and adults. Family rates are offered at the motels and group rates given for lifts and instruction tickets at the area.

Coronado Club Activities Celebrate New Year's Eve at Club

The year 1968 will end in grand style at the Coronado Club Dec. 31. The year's biggest bash will also welcome 1969 with hats, noisemakers, confetti, champagne, and the music of two swinging bands.

Phil Graham will hold the bandstand upstairs while Tommy Kelly and the Smiling Irishmen shake it up downstairs. The music starts at 9 p.m. and lasts until 1 a.m.

Along with the \$7.50 per couple admission cost for members goes a bottle of champagne and a buffet breakfast. The cost is \$10 per couple for guests. (The Club calendar has a misprint. The buffet breakfast is included in the admission tab.)

Make your reservations early for this one. The Club will be handling a capacity crowd.

Social Hours

With the start of the new year, the Club will resume the regular Friday night social hours with special prices and special entertainment. On Friday, Jan. 3, the Aristocrats will play for dancing while the southern fried chicken buffet is spread.

On Friday, Jan. 10, Tommy Kelly returns to the bandstand while the Coronado Club kitchen staff wheels out the Mexican food buffet.

Seafood, the kind New Mexicans like, will be the buffet feature on Friday, Jan. 17. Phil Graham will play for dancing.

Special Social Hour

A number of special events at the Club have been planned by the Board of Directors during 1969. Starting the series is a special social hour on Friday, Jan. 31, which will feature the Shadows, a swinging-singing-dancing group of entertainers

bers of the Sandia Peak Ski Patrol, including Pete Stirbis (1548), leader of the Patrol. They frequently give lectures or demonstrations on safety rules on the slopes and accident prevention.

Anyone who is a member of the Coronado Club is eligible for membership in the ski club. Dues are nominal - \$3 per family or \$1.50 per person for the year.

who have been playing to full houses on the West Coast. The group will perform for a social hour on Friday, present a teen concert on Saturday afternoon Feb. 1, and perform again that night for members. The Saturday bash will feature the show, dinner and dancing.

Teen Go-Go

The Kidds will play for a teenage holiday party Monday, Dec. 30, from 7:30 until 10:30. Member parents should pick up tickets at the Club office.

Stockmarket Forum

A four-week course in stockmarket investing will be offered free by the Club starting Tuesday, Jan. 14. The forum will meet each Tuesday from 7:30 until 9:30. Instructors will be representatives of Goodbody and Company, members of the New York Stock Exchange. All Sandia and AEC employees are welcome.

Adult Dance Classes

Monday, Jan. 6, will mark the beginning of new 10-week dance classes at the Coronado Club. The beginners will meet Mondays at 7:30 p.m. while the advanced class will meet at 8:30. Enrollment (fee \$20 per couple) is through the Club office.

Teen Dance Class

Mike Haley will instruct two six-week dance classes for teenagers starting Saturday, Jan. 18. Beginners will meet from 1 until 2:30, while intermediates will meet from 2:30 until 3:30 on Saturdays. Enroll (fee \$15 and \$10) at the first session.

Kids Christmas Party

Santa Claus himself will preside at a Christmas party for kids under 12 at the Club tomorrow from 10 a.m. until noon. Free goodies, games and great fun are in store for children of members. Entertainment and a few surprises are planned.

Club Holidays

The Coronado Club will be closed on Christmas Day and New Year's Day.

* * *

Bowling Tournament

Both a men and women's singles bowling tournament will be conducted by the Coronado Club Saturday, Jan. 11 at San Mateo Lanes. High series bowlers will qualify for the state tournament. Only Coronado Club members may participate.

For additional information, contact John Nakayama (1513), tel. 264-8925; or Dick Demmel (4152), tel. 264-7342.





The Children's Hour

Today's toys are usually made to do something. You push a switch and they crawl, run, screech, belch fire, cry, laugh, warm up, rat-a-tat, roll, or combine several of these activities. The battery-powered toys pose no electrical hazard; but those using 110-volt house current should be carefully examined. Toy electric stoves, plastic molding toys, and wood burn-ing tools get just as hot as their grown-up counterpart. Plug-in toys that move such as trains or auto sets should be checked for possible shock hazard.

The club also subsidizes a junior learnto-ski program and lesson tickets for adults at Sandia Peak. Some New Mexico ski areas also give ski lift discounts to club members.

This year the Coronado Ski Club purchased professional equipment to check the installation and tension adjustment of safety bindings. This equipment is available (on a do-it-yourself basis) to any Sandian employee or dependent during one of the club's regular binding equipment clinics. The first clinic is planned for Saturday, Dec. 21, from 3-5 p.m. at the Coronado Club. Special arrangements for use of the equipment may be made through Jim Griscom.

Regular meetings are held the second Tuesday of each winter month at the Coronado Club. The program usually consists of refreshments, a brief business meeting, a speaker (or other special activity) and "lots" of ski movies. Nine Coronado Ski Club members are also mem-

SANDIA PEAK Ski Patrol includes Pete Stirbis (1548), a member of the Coronado Ski Club and patrol leader, and John Shunny (3432). During club meetings, patrolmen frequently lecture or demonstrate ways of preventing accidents on the ski slopes.